



**U.S. Department of Energy**  
**Office of River Protection**

**P.O. Box 450  
Richland, Washington 99352**

03-OSR-0001

Mr. R. F. Naventi, Project Manager  
Bechtel National, Inc.  
2435 Stevens Center  
Richland, Washington 99352

Dear Mr. Naventi:

**CONTRACT NO. DE-AC27-01RV14136 – PRETREATMENT CONSTRUCTION AUTHORIZATION  
REQUEST REVIEW QUESTION**

Reference: BNI Letter from A. R. Veirup to M. K. Barrett, ORP, "Request for Review and Approval of the Construction Authorization Request for the Hanford Tank Waste Treatment and Immobilization Plant," CCN: 030609, dated May 1, 2002.

This letter transmits U. S. Department of Energy, Office of River Protection (ORP) Pretreatment facility Construction Authorization Request review Question PT-PSAR-342 to Bechtel National, Inc. (BNI) for response. Acceptable resolution of this review question is required to support Pretreatment facility full construction authorization.

The Construction Authorization Agreement, Revision 0, between ORP and BNI requires BNI to complete the following commitment before full Pretreatment facility construction authorization:

"Perform a revised seismic SSI analysis based on the revised building layout in which lateral dynamic soil pressure will be calculated directly for a few critical below grade walls using soil pressure elements in the SASSI model. If soil pressure is not obtained directly from the revised SSI analysis, the SASSI-generated moment results will be used to estimate the lateral dynamic soil pressure."

ORP reviewed BNI's draft soil-structure interaction (SSI) analysis provided to ORP on December 13, 2002, and associated response spectra provided to ORP on December 31, 2002. One review question with six parts (attached Question PT-PSAR-342) relating to acceptability of the SSI analysis was identified requiring BNI resolution to support Pretreatment facility full construction authorization.

Mr. R. F. Naventi  
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If you have any questions, please contact me, or your staff may call Lewis F. Miller, Jr., WTP Safety Regulation Division, (509) 376-6817.

Sincerely,

OSR:RAG

Roy J. Schepens  
Manager

Attachment